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PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70 Rec'd PCT/PTO 10 NOV 2005

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Applicant's or agent's file reference KW0112	FOR FURTHER ACTIO		See Form PCT/IPEA/416					
International application No.	International filing date (de	y/month/year)	Priority date (day/month/year)					
PCT/JP2003/015589	05 December 2003 (05.12.2003)	06 December 2002 (06.12.2002)					
International Patent Classification (IPC) or na C07D 211/58, 401/06, 401/14, 40	ational classification and IPC 05/14, A61K 31/4468, 31/	2 /4545, 31/444, <i>A</i>						
Applicant	KOWA CO., I	LTD.						
This report is the international prelim Authority under Article 35 and transr.	inary examination report, es	tablished by this ling to Article 36	International Preliminary Examining					
 This REPORT consists of a total of This report is also accompanied by Al 	6 sheets, inclu	ding this cover sh	leet.					
a. (sent to the applicant and to		a total of	sheets, as follows:					
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4. This report contains indications relatin Box No. I Basis of the repo								
Box No. II Priority	••							
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Box No. III Box No. IV Lack of unity of invention Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step and industrial applicability Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; Box No. VI Certain documents cited Certain defects in the international application								
					Box No. VIII Certain observations on the international application			
					Date of submission of the demand		f completion of the	nig -on-ort
					14 April 2004 (14.04.200	l l		mber 2004 (24.09.2004)
ame and mailing address of the IPEA/JP	Author	ized officer						
acsimile No.	Teleph	one No.						

Form PCT/IPEA/409 (cover sheet) (January 2004)

Translation

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

Box No. I Bas	sis of the report		PCT/JP2003/015589
1. With regard to	the language, this report is bas	ed on the international application in the	
The True	ated under this item.	and international application in the	language in which it was filed, unless
which is	off is based on translations fro language of a translation furnis	om the original language into the follow	wing language
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L Pub	lication of the international app	Dication (under Dule 12.4)	
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The interna	ational application as originally	onal application, this report is based on an invitation under Article 14 are refer	on (replacement sheets which have been rred to in this report as "originally filed"
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

Box No. III Non-establishment of articles and an PATENTABILITY	PCT/JP2003/015589
and to novelty, inventive step and	i industrial applicability
The questions whether the claimed invention appears to be novel, to involve an inventive applicable have not been examined in respect of:	step (to be non obvious), or to be industria
the entire international application.	
claims Nos31-45	
because:	
the said international application, or the said claims Nos relate to the following subject matter which does not require an international pre See supplemental sheet.	31-45
See supplemental sheet	liminary examination (specify):
the description, claims or drawings (indicate particular elements below) or said classes are so unclear that no meaningful opinion could be formed (specify):	aims Nos.
the claims, or said claims Nosby the description that no meaningful opinion could be formed.	are so inches
	are so inadequately supported
bear of report has been established for said claims Nos	31-45
the nucleotide and/or amino acid sequence listing does not comply with the standard Administrative Instructions in that:	provided for in Annex C of the
the written form has not been furnished	
does not comply with the standard	
the computer readable form has not been furnished	
does not comply with the standard	
the tables related to the nucleotide and/or amino acid sequence listing, if in computer rethe technical requirements provided for in Annex C-bis of the Administrative Instruction	readable form only, do not comply with
see Supplemental Box for further details.	
CT/IPEA/409 (Box No. III) (January 2004)	
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/JP 03/15589

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Supplemental Box
(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: III. 1.

The inventions set forth in claims 31-45 pertain to methods for treatment of the human body by therapy.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/JP 03/15589

YES

NO

v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement				
	Novelty (N)	Claims	1-30	YES	
		Claims		NO	
	Inventive step (IS)	Claims	1-30	YES	
		Claims		NO	
	Industrial applicability (IA)	Claims	1-30		

Claims

Citations and explanations

- 1. US 6395753 B1
- 2. WP 01/00589 A1
- 3. JP 11-171774 A

Claims 1-30

Although document 1 discloses the fact that compounds represented by general formula (1) in the present application have an inhibiting action on cell adhesion or cell infiltration, and that medicaments having said compounds as an active ingredient are efficacious in the treatment of disorders such as asthma, allergies, rheumatism, arteriosclerosis, inflammation and Sjögren's syndrome, it does not mention that the inhibiting action on cell adhesion or cell infiltration is pharmacologically closely associated with treatment of anaemia or disorders arising from depressed erythropoietin (EPO) production.

Documents 2 and 3, on the other hand, disclose agents for treating anaemia by heightening sensitivity to EPO; however these have a basic structure which differs from compounds represented by general formula (1) in the present application.

Moreover, even when the disclosures in documents 1-3 are considered together, the use of compounds represented by general formula (1) in the present application as

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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therapeutic agents for anaemia or disorders arising from depressed EPO production cannot be considered obvious to a person skilled in the art.

Therefore, the inventions set forth in claims 1-30 in the present application are novel and involve an inventive step relative to documents 1-3.